



449

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Attorney Docket Number	34162/RJW
Application Number	09/443,527
Filing Date	November 19, 1999
Applicant(s)	Robert M.L. Baker, Jr., et al.
Group Art Unit	2834
Examiner Name	Not yet assigned

## U.S. PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
Bm	2,719,944	10/1955	Brailsford	318	254	
Bm	2,814,769	11/1957	Williams	318	171	
Bm	3,612,630	10/1971	Rosensweig	308	10	
Bm	3,667,019	5/1972	Elliott, et al.	318	254	
Bm	3,903,463	9/1975	Kanamori	318	138	
Bm	3,959,700	5/1976	Sugiura, et al.	318	138	
Bm	4,035,658	7/1977	Diggs	290	55	
Bm	4,052,134	10/1977	Rumsey	416	119	
Bm	4,086,505	4/1978	McDonald	310	74	
Bm	5,398,571	3/1995	Lewis	74	572	
Bm	5,446,018	8/1995	Takahata, et al.	310	90.5	
Bm	5,646,728	7/1997	Coutsomitros	356	352	
Bm	5,831,362	11/1998	Chu, et al.	310	90.5	
Bm	5,929,579	7/1999	Hsu	318	439	

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
Bm	GB1333343	10/1973	United Kingdom	B01D	3/06		

EXAMINER SIGNATURE	B. Mullin	DATE CONSIDERED	5-14-00
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**OTHER DOCUMENTS**

EXAMINER INITIALS	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
BM	J. Weber, "Gravitational Waves" in <i>Gravitation and Relativity</i> , Chapter 5, pp. 90-105 (W.A. Benjamin, Inc., New York, 1964)
BM	J. Weber, "Detection and Generation of Gravitational Waves", <i>Physical Review</i> , (1960) Vol. 117, Number 1, pp. 306-313.
BM	J. Weber, "Gravitational Radiation from the Pulsars", <i>Physical Review Letters</i> , (1968) Vol. 21, Number 6, pp. 395-396.
BM	Robert L. Forward and Larry R. Miller "Generation and Detection of Dynamic Gravitational-Gradient Fields", Hughes Research Laboratories, 8/5/1966, pp. 512-518.

EXAMINER SIGNATURE	May 14, 2000 <i>J Mullins</i>	DATE CONSIDERED	5-14-00
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			
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Substitute for PTO-1449A/B

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Attorney Docket Number	40702/RJW/B596
Application Number	09/752,975
Filing Date	December 27, 2000
Applicant(s)	Robert M.L. Baker, Jr.
Group Art Unit	2834
Examiner Name	Not yet assigned

**U.S. PATENT DOCUMENTS**

EXAMINER INITIALS	Cite No. <sup>1</sup>	DOCUMENT NUMBER Number - kind code <sup>2</sup> . (If known)	PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIALS	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T <sup>6</sup> (✓)

**OTHER DOCUMENTS**

EXAMINER INITIALS	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
BM		GERTSENSHTEIN, M.E., "Wave Resonance of Light and Gravitational Waves" (1962), Soviet Physics JETP, Volume 14, No. 1, pp. 84-85.

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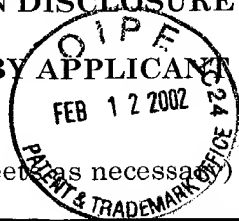
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## OTHER DOCUMENTS

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Bm	EINSTEIN, et al., "On Gravitational Waves", January 1937, pp. 43-54, Vol. 223, 1333-4
	BRUSTEIN, et al., "Relic gravitational waves from string cosmology", Physics Letters, November, 1995, pp. 45-51, B 361, Elsevier Science B.V.
	VALLISNERI, "Prospects for Gravitational-Wave Observations of Neutron-Star Tidal Disruption in Neutron-Star-Black-Hole Binaries", Physical Review Letters, April 17, 2000, pp. 3519-3522, Vol. 84, No. 16, The American Physical Society
	FLANAGAN, "Measuring gravitational waves from binary black hole coalescences. I. Signal to noise for inspiral, merger, and ringdown", Physical Review D, April 2, 1998, pp. 4535-4565, Vol. 57, No. 8, The American Physical Society
	PEGORARO, et al., "Electromagnetic Detector for Gravitational Waves", Physics Letters, October 2, 1978, pp 165-168, Vol. 68A, No. 2
	TOKUOKA, "Interaction of Electromagnetic and Gravitational Waves in the Weak and Short Wave Limit", November 1975, pp. 1309-1317, Vol. 54, No. 5, Progress of Theoretical Physics
	CHAKRABARTY, "Gravitational Waves: An Introduction", Physics/9908041, August 21, 1999, pp. 1-22, Mehta Research Institute, India
	LANDAU, et al., "The Classical Theory of Fields", 1975, pp. Cover, bibliography, 345-357, Fourth Revised English Edition, Pergamon Press
	BAKER, "Astrodynamics, Applications and Advanced Topics", Academic Press, 1967 pp. 376-393.
✓	PORTILLA, et al., "Generation of High Frequency Gravitational Waves", Departament d' Astronomia i Astrofísica, c/Dr. Moliner 50, 46100 Burjassot, Valencia, Spain, 2001, The American Physical Society, pp. 63 044014-1 to 044014-7.

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9-19-02

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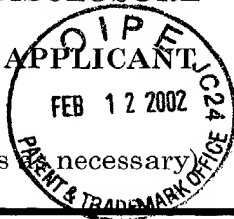
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BM	4,546,264	10-1985	Pinson	290	54	
BM	5,514,923	5-1996	Gossler, et al.	310	74	
BM	5,721,461	2-1998	Taylor	310	268	

## FOREIGN PATENT DOCUMENTS

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						YES	NO

## OTHER DOCUMENTS

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BM	GRISHCHUK, et al., "Emission of gravitational waves by an electromagnetic cavity", February 1974, pp. 215-221, Vol. 38, No. 2, Sov. Phys.-JETP
↓	BRAGINSKII, et al., "Electromagnetic detectors of gravitational waves", May 1974, pp. 865-869, Vol. 38, No. 5, Sov. Phys.-JETP
↓	BAKER, "Preliminary Tests of Fundamental Concepts Associated with Gravitational-Wave Spacecraft Propulsion", AIAA Space 2000 Conference & Exposition, September 20, 2000, pp. 1-26 and pp. 1-5A (Addendum), Paper No. 2000-5250, American Institute of Aeronautics and Astronautics, Inc.

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